

AMENDMENTS

In the Specification

Beginning on page 1 at line 20, immediately preceding the heading entitled “FIELD OF THE INVENTION,” please insert the following new paragraph:

SUBMISSION ON COMPACT DISC

The content of the following submission on compact discs is incorporated herein by reference in its entirety: A computer readable form (CRF) of the Sequence Listing on compact disc (file name: 511582002420, date recorded: March 28, 2006, size: 583,680 bytes); a duplicate compact disc copy of the Sequence Listing (COPY 1) (file name: 511582002420, date recorded: March 28, 2006, size: 583,680 bytes); and a duplicate compact disc copy of the Sequence Listing (COPY 2) (file name: 511582002420, date recorded: March 28, 2006, size: 583,680 bytes).

Please replace Table IV, beginning on page 117 and bridging to page 122, with the following amended Table IV:

TABLE IV (A):

SUPERMOTIFS	POSITION	POSITION	POSITION
	2 (Primary Anchor)	3 (Primary Anchor)	C Terminus (Primary Anchor)
A1	T <i>ILVMS</i> (SEQ ID NO:2893)		FWY
A2	L <i>IVMATQ</i> (SEQ ID NO:2894)		I <i>VMATL</i> (SEQ ID NO:2895)
A3	V <i>SMATLI</i> (SEQ ID NO:2896)		RK
A24	Y <i>FWIVLMT</i> (SEQ ID NO:2897)		F <i>IYWLM</i> (SEQ ID NO:2898)
B7	P		V <i>ILFMWYA</i> (SEQ ID NO:2899)
B27	RHK		F <i>YLVMIYA</i> (SEQ ID NO:2900)
B44	ED		FWY <i>LIMVA</i> (SEQ ID NO:2901)
B58	ATS		FWY <i>LIVMA</i> (SEQ ID NO:2902)
B62	Q <i>LIVMP</i> (SEQ ID NO:2903)		FWY <i>MIVLA</i> (SEQ ID NO:2904)
MOTIFS			
A1	TSM		Y
A1		DEAS (SEQ ID NO:2905)	Y
A2.1	L <i>MVQIAT</i> (SEQ ID NO:2906)		V <i>LIMAT</i> (SEQ ID NO:2907)
A3	L <i>MVISATFCGD</i> (SEQ ID NO:2908)		K <i>YRHFA</i> (SEQ ID NO:2909)
A11	V <i>TMLISAGNCDF</i> (SEQ ID NO:2910)		K <i>RYH</i> (SEQ ID NO:2911)
A24	Y <i>FWM</i> (SEQ ID NO:2912)		F <i>LIW</i> (SEQ ID NO:2913)
A*3101	M <i>VTALIS</i> (SEQ ID NO:2914)		RK
A*3301	M <i>VALFIST</i> (SEQ ID NO: 2915)		RK
A*6801	A <i>VTMSLI</i> (SEQ ID NO: 2916)		RK
B*0702	P		L <i>MFWYAIV</i> (SEQ ID NO: 2917)
B*3501	P		L <i>MFWYIVA</i> (SEQ ID NO: 2918)
B51	P		L <i>IVFWYAM</i> (SEQ ID NO: 2919)
B*5301	P		I <i>MFWYALV</i> (SEQ ID NO: 2920)
B*5401	P		A <i>TIVLMFWY</i> (SEQ ID NO: 2921)

Bolded residues are preferred, italicized residues are less preferred: A peptide is considered motif-bearing if it has primary anchors at each primary anchor position for a motif or supermotif as specified in the above table.

TABLE IV (B): HLA CLASS II SUPERMOTIF

1	6	9
W, F, Y, V, .I, L	A, V, I, L, P, C, S, T	A, V, I, L, C, S, T, M, Y

TABLE IV (C):

MOTIFS	1° anchor 1	2	3	4	5	1° anchor 6	7	8	9
DR4	preferred deleterious	FMYLIVW (SEQ ID NO: 2922)	M	T		VSTCPALIM (SEQ ID NO: 2923)	MH		MH WDE
DR1	preferred deleterious	MFLIVWY (SEQ ID NO: 2924)		PAMQ (SEQ ID NO: 2925)		VMATSPLIC (SEQ ID NO: 2926)	M		AVM
			C	CH	FD	CWD	GDE	D	
DR7	preferred deleterious	MFLIVWY (SEQ ID NO: 2924)	M	W	A	IVMSACTPL	M		IV
			C		G	(SEQ ID NO: 2927)	GRD	N	G
<u>DR3</u>	<u>MOTIFS</u>	1° anchor 1	2	3	1° anchor 4	5	1° anchor 6		
motif a preferred	LIVMFY (SEQ ID NO: 2928)				D				
motif b preferred	LIVMFAY (SEQ ID NO: 2929)				DNQUEST (SEQ ID NO: 2930)	KRH			
DR	MFLIVWY (SEQ ID NO: 2924)					VMSTACPLI (SEQ ID NO: 2931)			

Italicized residues indicate less preferred or "tolerated" residues

TABLE IV (D):

POSITION

	1	2	3	4	5	6	7	8	C-terminus
SUPER-MOTIFS									
A1		1° Anchor TILVMS (SEQ ID NO: 2893)							1° Anchor FWY
A2		1° Anchor LIVMATQ (SEQ ID NO: 2894)							1° Anchor LIVMAT (SEQ ID NO: 2932)
A3	preferred	1° Anchor VSMATLI (SEQ ID NO: 2896)	YFW (4/5)	YFW (4/5)	YFW (3/5)	YFW (4/5)	P (4/5)		1° Anchor RK
	deleterious	DE (3/5); P (5/5)	DE (4/5)						
A24		1° Anchor YFWIVLMT (SEQ ID NO: 2897)							1° Anchor FYWVLM (SEQ ID NO: 2933)
B7	preferred	FWY (5/5) LIVM (3/5) (SEQ ID NO: 2934)	FWY (4/5)				FWY (3/5)		1° Anchor VILFMWYA (SEQ ID NO: 2899)
	deleterious	DE (3/5); P(5/5); G(4/5); A(3/5); QN(3/5)			DE (3/5)	G (4/5)	QN (4/5)	DE (4/5)	
B27		1° Anchor RHK							1° Anchor FYLWMI/A (SEQ ID NO: 2900)
B44		1° Anchor ED							1° Anchor FWYLMVA (SEQ ID NO: 2901)
B58		1° Anchor ATS							1° Anchor FWYLI/MA (SEQ ID NO: 2902)
B62		1° Anchor QLI/MP (SEQ ID NO: 2903)							1° Anchor FWYMI/LA (SEQ ID NO: 2904)

TABLE IV (E):

	1	2	3	4	5	6	7	8	9	C-terminus
									or C-terminus 1°Anchor Y	
A1 9-mer	preferred GFYW (SEQ ID NO:2935) DE	1°Anchor STM	DEA	YFW		P	DEQN (SEQ ID NO:2936)	YFW		
	deleterious		RHKLIVMP (SEQ ID NO:2976)	A	G	A				
A1 9-mer	preferred GRHK (SEQ ID NO:2937) A	ASTCLIVM (SEQ ID NO:2938) RHKDEPYF W (SEQ ID NO:2947)	1°Anchor DE4S (SEQ ID NO:2905)	GSTC (SEQ ID NO:2939) DE		ASTC (SEQ ID NO:2940) RHK	LIVM (SEQ ID NO:2934) PG	DE	1°Anchor Y	
	deleterious				PQN			GP		
A1 10-mer	preferred YFW	1°Anchor STM	DEAQN (SEQ ID NO:2941)	A	YFWQN (SEQ ID NO:2942)		PASTC (SEQ ID NO:2943)	GDE	P	1°Anchor Y
	deleterious		RHKGIVM (SEQ ID NO:2944)	DE	RHK	QNA	RHKYFW (SEQ ID NO:2945)	RHK	A	
A1 10-mer	preferred YFW	STCLIVM (SEQ ID NO:2946)	1°Anchor DE4S (SEQ ID NO:2905)	A	YFW		PG	G	YFW	1°Anchor Y
	deleterious	RHKDEPY FW (SEQ ID NO:2947)			P	G		PRHK (SEQ ID NO:2948)	QN	
A2.1 9-mer	preferred YFW	1°Anchor LMIVQ47 (SEQ ID NO:2949)	YFW	STC	YFW		A	P	1°Anchor VLLMAT (SEQ ID NO:2907)	
	deleterious DEP		DERKH (SEQ ID NO:2950)			RKH	DERKH (SEQ ID NO:2950)			

TABLE IV (E): continued

	1	2	3	4	5	6	7	8	9	C-Terminus
A2.1 10-mer	preferred AYFW (SEQ ID NO:2959)	I°Anchor LMIV/QAT (SEQ ID NO:2949)	LVIM (SEQ ID NO:2977)	G		G		FYWL VIM (SEQ ID NO:2951)		I°Anchor VLIMAT (SEQ ID NO:2907)
	deleterious DEP		DE	RKHA (SEQ ID NO:2952)	P		RKH	DERKH (SEQ ID NO:2950)	RKH	
A3	preferred RHK	I°Anchor LMVISATFCG D (SEQ ID NO:2953)	YFW	PRHKYFW (SEQ ID NO:2954)	A	YFW		P	I°Anchor KYRHF4 (SEQ ID NO:2909)	
	deleterious DEP		DE							
A11	preferred A	I°Anchor VTLMISAGNC DF (SEQ ID NO:2955)	YFW	YFW	A	YFW	YFW	P	I°Anchor KRYH (SEQ ID NO:2911)	
	deleterious DEP						A	G		
A24 9-mer	preferred YFWRHK (SEQ ID NO:2956)	I°Anchor YFWM (SEQ ID NO:2912)		STC			YFW	YFW	I°Anchor FLIW (SEQ ID NO:2913)	
	deleterious DEG		DE	G	QNP	DERHK (SEQ ID NO:2957)	G	AQN		
A24 10-mer	preferred	I°Anchor YFWM/ SEQ ID NO:2912)		P	YFWP (SEQ ID NO:2963)		P		I°Anchor FLIW (SEQ ID NO:2913)	
	deleterious		GDE	QN	RHK	DE	A	QN	DEA	
A3101	preferred RHK	I°Anchor MVT4L/S (SEQ ID NO:2914)	YFW	P		YFW	YFW	AP	I°Anchor RK	
	deleterious DEP		DE		ADE	DE	DE	DE		
A3301	preferred	I°Anchor MVALF/ST (SEQ ID NO:2915)	YFW				AYFW (SEQ ID NO: 2959)		I°Anchor RK	
	deleterious GP		DE							

TABLE IV (E): continued

	1	2	3	4	5	6	7	8	9	C-Terminus
A6801	preferred	YFWSTC (SEQ ID NO:2960)	1°Anchor AVTMSLI (SEQ ID NO:2916)	YFWLIV M (SEQ ID NO:2961)	RHK (SEQ ID NO:2961)	RHK	YFW	P	1°Anchor RK	
B0702	deleterious preferred	GP RHKFW Y	DEG RHK	DE RHK	DE RHK	RHK	RHK	A PA	1°Anchor LMFWYAI (SEQ ID NO:2917)	
B3501	preferred	FWYLMIV M	FWY	DEP RHK	DE RHK	GDE	QN	DE		
B51	deleterious preferred	AGP LIVMFW Y	FWY	STC	G FWY	G	G	FWY	1°Anchor LIVFWYAM (SEQ ID NO:2919)	
B5301	preferred	LIVMFW Y	FWY	STC	FWY		LIVMFWY (SEQ ID NO:2965)	FWY	1°Anchor IMFWYAL (SEQ ID NO:2967)	
B5401	preferred	FWY	FWY	FWY	LIVM (SEQ ID NO:2934)		ALIVM (SEQ ID NO:2970)	FWYAP (SEQ ID NO:2971)	1°Anchor ATIVLMF WY (SEQ ID NO:2921)	
	deleterious	AGPQN (SEQ ID NO:2968)	GDESTC (SEQ ID NO:2973)	RHKDE (SEQ ID NO:2974)	DE	QNDGE (SEQ ID NO:2975)				

Italicized residues indicate less preferred or "tolerated" residues. The information in this Table is specific for 9-mers unless otherwise specified.